

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/729,653

DATE: 11/13/2001

TIME: 13:39:38

Input Set : A:\Is4367.txt

Output Set: N:\CRF3\11132001\I729653.raw

ENTERED

4 <110> APPLICANT: Lin, Biaoyang
6 <120> TITLE OF INVENTION: Prostate-Specific Polypeptide PAMP and
7 Encoding Nucleic Acid Molecules
10 <130> FILE REFERENCE: P-IS 4367
12 <140> CURRENT APPLICATION NUMBER: US 09/729,653
13 <141> CURRENT FILING DATE: 2000-12-04
15 <160> NUMBER OF SEQ ID NOS: 10
17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 4500
21 <212> TYPE: DNA
22 <213> ORGANISM: Homo sapien
24 <220> FEATURE:
25 <221> NAME/KEY: CDS
26 <222> LOCATION: (1)...(4146)
28 <221> NAME/KEY: misc_feature
29 <222> LOCATION: (1)...(4500)
30 <223> OTHER INFORMATION: Xaa=any amino acid
32 <400> SEQUENCE: 1
33 cac tcg ctg att ggt cgc tgc tcg cgc ggt ctc ctg ggt gac ggg aac 48
34 His Ser Leu Ile Gly Arg Cys Ser Arg Gly Leu Leu Gly Asp Gly Asn
35 1 5 10 15
37 gcg gta gcc tgc ttg gtg gag acc ggg tgc gcc tgc gta ctt cat agt 96
38 Ala Val Ala Cys Leu Val Glu Thr Gly Cys Ala Cys Val Leu His Ser
39 20 25 30
41 tcg cgt agc ggc tcg agc gtg gag atg aag cgt att ttc tca ctg cta 144
42 Ser Arg Ser Gly Ser Ser Val Glu Met Lys Arg Ile Phe Ser Leu Leu
43 35 40 45
45 gaa aag act tgg ctt ggc gca cca ata cag ttt gcc tgg caa aaa aca 192
46 Glu Lys Thr Trp Leu Gly Ala Pro Ile Gln Phe Ala Trp Gln Lys Thr
47 50 55 60
49 tca gga aac tac ctt gca gta aca gga gct gat tat att gtg aaa atc 240
50 Ser Gly Asn Tyr Leu Ala Val Thr Gly Ala Asp Tyr Ile Val Lys Ile
51 65 70 75 80
53 ttt gat cgc cat ggt caa aaa aga agt gaa att aac tta cct ggt aac 288
54 Phe Asp Arg His Gly Gln Lys Arg Ser Glu Ile Asn Leu Pro Gly Asn
55 85 90 95
57 tgt gtt gcc atg gat tgg gat aaa gat gga gat gtc cta gca gtg att 336
58 Cys Val Ala Met Asp Trp Asp Lys Asp Gly Asp Val Leu Ala Val Ile
59 100 105 110
61 gct gag aaa tct agc tgc att tat ctt tgg gat gcc aac aca aat aag 384
62 Ala Glu Lys Ser Ser Cys Ile Tyr Leu Trp Asp Ala Asn Thr Asn Lys
63 115 120 125
65 acc agc cag tta gac aat ggc atg agg gat caa atg tct ttc ctt ctt 432
66 Thr Ser Gln Leu Asp Asn Gly Met Arg Asp Gln Met Ser Phe Leu Leu
67 130 135 140
69 tgg tca aaa gtt gga agt ttc ctg gct gtt gga act gtt aaa gga aat 480

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| | | | | | | | | | | | | | | | | | |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 70 | Trp | Ser | Lys | Val | Gly | Ser | Phe | Leu | Ala | Val | Gly | Thr | Val | Lys | Gly | Asn | |
| 71 | 145 | | | | 150 | | | | | 155 | | | | | | 160 | |
| 73 | ttg | stt | att | tat | aat | cat | cag | aca | tct | cga | aag | att | cct | gtc | ctt | gga | 528 |
| W--> 74 | Leu | Xaa | Ile | Tyr | Asn | His | Gln | Thr | Ser | Arg | Lys | Ile | Pro | Val | Leu | Gly | |
| 75 | | | | | 165 | | | | | 170 | | | | | | 175 | |
| 77 | aaa | cat | act | aag | aga | atc | act | tgt | gga | tgt | tgg | aat | gca | gaa | aat | ctg | 576 |
| 78 | Lys | His | Thr | Lys | Arg | Ile | Thr | Cys | Gly | Cys | Trp | Asn | Ala | Glu | Asn | Leu | |
| 79 | | | | | 180 | | | | | 185 | | | | | | 190 | |
| 81 | cyt | gct | tta | ggt | ggt | gaa | gat | aaa | atg | att | aca | gtt | agt | aat | cag | gaa | 624 |
| W--> 82 | Xaa | Ala | Leu | Gly | Gly | Glu | Asp | Lys | Met | Ile | Thr | Val | Ser | Asn | Gln | Glu | |
| 83 | | | | | 195 | | | | 200 | | | | | 205 | | | |
| 85 | ggt | gac | acg | ata | aga | cag | aca | caa | gtg | aga | tca | gag | cct | akc | aac | atg | 672 |
| W--> 86 | Gly | Asp | Thr | Ile | Arg | Gln | Thr | Gln | Val | Arg | Ser | Glu | Pro | Xaa | Asn | Met | |
| 87 | | | | | 210 | | | | 215 | | | | | 220 | | | |
| 89 | cag | ttt | ttc | ttg | atg | aag | atg | gat | gac | cga | acc | tct | gct | gct | gaa | agc | 720 |
| 90 | Gln | Phe | Phe | Leu | Met | Lys | Met | Asp | Asp | Arg | Thr | Ser | Ala | Ala | Glu | Ser | |
| 91 | 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| 93 | atg | ata | agt | gtg | gtg | ctt | ggc | aag | aaa | act | ttg | ttt | ttt | tta | aat | ctg | 768 |
| 94 | Met | Ile | Ser | Val | Val | Leu | Gly | Lys | Lys | Thr | Leu | Phe | Phe | Leu | Asn | Leu | |
| 95 | | | | | 245 | | | | | 250 | | | | | | 255 | |
| 97 | aat | gaa | cca | gat | aac | cca | gct | gat | ctt | gaa | ttt | cag | cag | gac | ttt | ggc | 816 |
| 98 | Asn | Glu | Pro | Asp | Asn | Pro | Ala | Asp | Leu | Glu | Phe | Gln | Gln | Asp | Phe | Gly | |
| 99 | | | | | 260 | | | | 265 | | | | | 270 | | | |
| 101 | aac | att | gtc | tgc | tat | aat | tgg | tat | ggt | gat | ggc | cgc | atc | atg | att | ggt | 864 |
| 102 | Asn | Ile | Val | Cys | Tyr | Asn | Trp | Tyr | Gly | Asp | Gly | Arg | Ile | Met | Ile | Gly | |
| 103 | | | | | 275 | | | | 280 | | | | | 285 | | | |
| 105 | ttt | tca | tgt | gga | cat | ttt | gtg | gtc | att | tct | act | cat | act | gga | gag | ctt | 912 |
| 106 | Phe | Ser | Cys | Gly | His | Phe | Val | Val | Ile | Ser | Thr | His | Thr | Gly | Glu | Leu | |
| 107 | | | | | 290 | | | | 295 | | | | | 300 | | | |
| 109 | ggt | caa | gag | ata | ttt | cag | gct | cgt | aac | cat | aaa | gat | aat | cta | acc | agc | 960 |
| 110 | Gly | Gln | Glu | Ile | Phe | Gln | Ala | Arg | Asn | His | Lys | Asp | Asn | Leu | Thr | Ser | |
| 111 | 305 | | | | | 310 | | | | | 315 | | | | | 320 | |
| 113 | att | gca | gta | tca | cag | act | ctt | aac | aaa | ggt | gct | aca | tgt | gga | gat | aac | 1008 |
| 114 | Ile | Ala | Val | Ser | Gln | Thr | Leu | Asn | Lys | Val | Ala | Thr | Cys | Gly | Asp | Asn | |
| 115 | | | | | 325 | | | | | 330 | | | | | 335 | | |
| 117 | tgc | att | aaa | atc | caa | gac | ttg | ggt | gac | tta | aaa | gac | atg | tat | gtt | ata | 1056 |
| 118 | Cys | Ile | Lys | Ile | Gln | Asp | Leu | Val | Asp | Leu | Lys | Asp | Met | Tyr | Val | Ile | |
| 119 | | | | | 340 | | | | 345 | | | | | 350 | | | |
| 121 | ctc | aac | ctg | gat | gag | gaa | aat | aaa | gga | ttg | ggt | acc | ttg | tcc | tgg | act | 1104 |
| 122 | Leu | Asn | Leu | Asp | Glu | Glu | Asn | Lys | Gly | Leu | Gly | Thr | Leu | Ser | Trp | Thr | |
| 123 | | | | | 355 | | | | 360 | | | | | 365 | | | |
| 125 | gat | gat | ggc | cag | ttg | cta | gca | ctc | tct | acc | caa | agg | ggc | tca | ctt | cat | 1152 |
| 126 | Asp | Asp | Gly | Gln | Leu | Leu | Ala | Leu | Ser | Thr | Gln | Arg | Gly | Ser | Leu | His | |
| 127 | | | | | 370 | | | | 375 | | | | | 380 | | | |
| 129 | gtt | ttc | ctg | acc | aag | ctt | ccc | ata | ctt | ggg | gat | gcc | tgc | agc | aca | agg | 1200 |
| 130 | Val | Phe | Leu | Thr | Lys | Leu | Pro | Ile | Leu | Gly | Asp | Ala | Cys | Ser | Thr | Arg | |
| 131 | 385 | | | | | 390 | | | | | 395 | | | | | 400 | |
| 133 | att | gcc | tat | ctc | acc | tcc | ctc | ctt | gaa | gtc | acc | gta | gcc | aac | cct | gtt | 1248 |
| 134 | Ile | Ala | Tyr | Leu | Thr | Ser | Leu | Leu | Glu | Val | Thr | Val | Ala | Asn | Pro | Val | |

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| | | | | | | | | | |
|-----|-------------|-------------|-------------|-------------|-------------|--------|--------|--------|------|
| 135 | | 405 | | 410 | | 415 | | | |
| 137 | gaa gga gag | cta cca atc | aca gtt tct | gtt gat gtg | gaa ccc aac | ttt | 1296 | | |
| 138 | Glu Gly Glu | Leu Pro Ile | Thr Val Ser | Val Asp Val | Glu Pro Asn | Phe | | | |
| 139 | | 420 | | 425 | | 430 | | | |
| 141 | gtg gca gta | ggg ctt tat | cat ctg gct | gta gga atg | aat aat cga | gct | 1344 | | |
| 142 | Val Ala Val | Gly Leu Tyr | His Leu Ala | Val Gly Met | Asn Asn Arg | Ala | | | |
| 143 | | 435 | | 440 | | 445 | | | |
| 145 | tggttttat | gtccttgga | gaa aat gct | gtg aaa aaa | ttg aaa gat | atg | 1392 | | |
| 146 | Trp Phe Tyr | Val Leu Gly | Glu Asn Ala | Val Lys Lys | Leu Lys Asp | Met | | | |
| 147 | | 450 | | 455 | | 460 | | | |
| 149 | gag tat ctg | gga aca gta | gcc agt att | tgc ctt cat | tct gac tat | gct | 1440 | | |
| 150 | Glu Tyr Leu | Gly Thr Val | Ala Ser Ile | Cys Leu His | Ser Asp Tyr | Ala | | | |
| 151 | 465 | | 470 | | 475 | 480 | | | |
| 153 | gct gca ctt | ttt gaa ggc | aaa gtc cag | tta cat ttg | ata gaa agc | gaa | 1488 | | |
| 154 | Ala Ala Leu | Phe Glu Gly | Lys Val Gln | Leu His Leu | Ile Glu Ser | Glu | | | |
| 155 | | 485 | | 490 | | 495 | | | |
| 157 | atc ttg gat | gct caa gaa | gaa cgt gag | act cgg ctt | ttc cca gca | gtg | 1536 | | |
| 158 | Ile Leu Asp | Ala Gln Glu | Glu Arg Glu | Thr Arg Leu | Phe Pro Ala | Val | | | |
| 159 | | 500 | | 505 | | 510 | | | |
| 161 | gat gat aag | tgc cgt atc | tta tgc cat | gcc tta act | agt gat ttc | ctc | 1584 | | |
| 162 | Asp Asp Lys | Cys Arg Ile | Leu Cys His | Ala Leu Thr | Ser Asp Phe | Leu | | | |
| 163 | | 515 | | 520 | | 525 | | | |
| 165 | atc tat ggt | aca gat act | ggg gtc gtt | cag tat ttc | tac att gaa | gac | 1632 | | |
| 166 | Ile Tyr Gly | Thr Asp Thr | Gly Val Val | Gln Tyr Phe | Tyr Ile Glu | Asp | | | |
| 167 | | 530 | | 535 | | 540 | | | |
| 169 | tggtcaatt | gttatgat | tatcga | catcct | gtcagt | gtgaaa | aagatt | 1680 | |
| 170 | Trp Gln Phe | Val Asn Asp | Tyr Arg His | Pro Val Ser | Val Lys Lys | Ile | | | |
| 171 | 545 | | 550 | | 555 | 560 | | | |
| 173 | ttt ccc gac | cca aat ggg | acc aga tta | gtt ttc att | gat gaa aaa | agt | 1728 | | |
| 174 | Phe Pro Asp | Pro Asn Gly | Thr Arg Leu | Val Phe Ile | Asp Glu Lys | Ser | | | |
| 175 | | 565 | | 570 | | 575 | | | |
| 177 | gat gga ttt | gtttac | tgtcca | gtcaat | gacgct | acc | tattag | attcca | 1776 |
| 178 | Asp Gly Phe | Val Tyr Cys | Pro Val Asn | Ala Thr Tyr | Glu Ile Pro | | | | |
| 179 | | 580 | | 585 | | 590 | | | |
| 181 | gat ttt tca | cca acc att | aaa ggt gtt | ctt tgg gaa | aac tgg cca | atg | 1824 | | |
| 182 | Asp Phe Ser | Pro Thr Ile | Lys Gly Val | Leu Trp Glu | Asn Trp Pro | Met | | | |
| 183 | | 595 | | 600 | | 605 | | | |
| 185 | gat aaa ggt | gta ttt att | gct tat gat | gat gat aag | gtg tac act | tat | 1872 | | |
| 186 | Asp Lys Gly | Val Phe Ile | Ala Tyr Asp | Asp Asp Lys | Val Tyr Thr | Tyr | | | |
| 187 | | 610 | | 615 | | 620 | | | |
| 189 | gtctttcac | aaggac | actata | caagg | gccagg | gttatt | ttggct | gggt | 1920 |
| 190 | Val Phe His | Lys Asp Thr | Ile Gln Gly | Ala Lys Val | Ile Leu Ala | Gly | | | |
| 191 | 625 | | 630 | | 635 | 640 | | | |
| 193 | agc acc aaa | gttcct | tttgct | cataaa | cctttg | ctgcta | tataat | gga | 1968 |
| 194 | Ser Thr Lys | Val Pro Phe | Ala His Lys | Pro Leu Leu | Leu Tyr Asn | Gly | | | |
| 195 | | 645 | | 650 | | 655 | | | |
| 197 | gag ctg acc | tgc caa aca | cag agt gga | aaa gta aac | aac atc tac | ctt | 2016 | | |
| 198 | Glu Leu Thr | Cys Gln Thr | Gln Ser Gly | Lys Val Asn | Asn Ile Tyr | Leu | | | |
| 199 | | 660 | | 665 | | 670 | | | |

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201 agc acc cat ggc ttt ctc agc aac tta aaa gat asg ggg cct gac gaa 2064
W--> 202 Ser Thr His Gly Phe Leu Ser Asn Leu Lys Asp Xaa Gly Pro Asp Glu
203          675          680          685
205 ctg aga cca atg ctg gca cac aat tta atg cta aag agg ttt tct gat 2112
206 Leu Arg Pro Met Leu Ala His Asn Leu Met Leu Lys Arg Phe Ser Asp
207          690          695          700
209 gct tgg gaa atg tgc agg att ctg aat gat gag gct gcc tgg aat gag 2160
210 Ala Trp Glu Met Cys Arg Ile Leu Asn Asp Glu Ala Ala Trp Asn Glu
211 705          710          715          720
213 ttg gcc aga gct tgt cta cat cac atg gaa gtg gag ttt gca atc cgt 2208
214 Leu Ala Arg Ala Cys Leu His His Met Glu Val Glu Phe Ala Ile Arg
215          725          730          735
217 gtt tat cgg aga att gga aat gtt ggc ata gtg atg tcc ttg gaa caa 2256
218 Val Tyr Arg Arg Ile Gly Asn Val Gly Ile Val Met Ser Leu Glu Gln
219          740          745          750
221 ata aag gga ata gag gac tac aat ctt ttg gca gga cac ctt gcc atg 2304
222 Ile Lys Gly Ile Glu Asp Tyr Asn Leu Leu Ala Gly His Leu Ala Met
223          755          760          765
225 ttt acc aac gat tat aac ctg gct cag gac ttg tac ctt gca tcc agc 2352
226 Phe Thr Asn Asp Tyr Asn Leu Ala Gln Asp Leu Tyr Leu Ala Ser Ser
227          770          775          780
229 tgt cct att gct gcc ctg gag atg aga agg gat tta cag cat tgg gac 2400
230 Cys Pro Ile Ala Ala Leu Glu Met Arg Arg Asp Leu Gln His Trp Asp
231 785          790          795          800
233 agt gct cta caa ctg gca aag cat ttg gcc cca gac cag ata cct ttt 2448
234 Ser Ala Leu Gln Leu Ala Lys His Leu Ala Pro Asp Gln Ile Pro Phe
235          805          810          815
237 ata tca aaa gaa tat gct att cag ctt gaa ttc gcg ggt gat tat gta 2496
238 Ile Ser Lys Glu Tyr Ala Ile Gln Leu Glu Phe Ala Gly Asp Tyr Val
239          820          825          830
241 aat gct ttg gct cat tat gag aaa gga ata aca ggt gat aat aag gaa 2544
242 Asn Ala Leu Ala His Tyr Glu Lys Gly Ile Thr Gly Asp Asn Lys Glu
243          835          840          845
245 cat gat gaa gct tgt ctg gct gga gtg gcc cag atg tcc ata aga atg 2592
246 His Asp Glu Ala Cys Leu Ala Gly Val Ala Gln Met Ser Ile Arg Met
247          850          855          860
249 gga gac ata cgt cga ggg gtt aac caa gcc ctc aag cat ccc agc agg 2640
250 Gly Asp Ile Arg Arg Gly Val Asn Gln Ala Leu Lys His Pro Ser Arg
251 865          870          875          880
253 gtc ctt aaa aga gac tgt gga gcc ata ttg gag aat atg aag caa ttt 2688
254 Val Leu Lys Arg Asp Cys Gly Ala Ile Leu Glu Asn Met Lys Gln Phe
255          885          890          895
257 tca gaa gcg gcc caa ctg tat gaa aaa ggt ctc tac tac gat aaa gca 2736
258 Ser Glu Ala Ala Gln Leu Tyr Glu Lys Gly Leu Tyr Tyr Asp Lys Ala
259          900          905          910
261 gca tct gtt tac atc cgc tct aag aat tgg gca aaa gtt ggt gat ctt 2784
262 Ala Ser Val Tyr Ile Arg Ser Lys Asn Trp Ala Lys Val Gly Asp Leu
263          915          920          925
265 ctg ccc cac gtt tct tct cct aag atc cat ttg cag tat gcc aaa gcc 2832

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```

266 Leu Pro His Val Ser Ser Pro Lys Ile His Leu Gln Tyr Ala Lys Ala
267      930      935      940
269 aag gaa gca gat gga aga tac aaa gaa gct gtt gta gct tat gaa aat 2880
270 Lys Glu Ala Asp Gly Arg Tyr Lys Glu Ala Val Val Ala Tyr Glu Asn
271 945      950      955      960
273 gca aaa cag tgg caa agt gta atc cgc atc tat ctg gat cac ctc aat 2928
274 Ala Lys Gln Trp Gln Ser Val Ile Arg Ile Tyr Leu Asp His Leu Asn
275      965      970      975
277 aat cct gaa aaa gct gtc aat att gtt aga gag acc cag tct ctg gat 2976
278 Asn Pro Glu Lys Ala Val Asn Ile Val Arg Glu Thr Gln Ser Leu Asp
279      980      985      990
281 gga gcc aaa atg gta gcc agg ttt ttt cta cag ctt ggt gac tat ggg 3024
282 Gly Ala Lys Met Val Ala Arg Phe Phe Leu Gln Leu Gly Asp Tyr Gly
283      995      1000      1005
285 tct gcc atc cag ttt ctt gtc atg tcc aaa tgc aac aat gaa gct ttc 3072
286 Ser Ala Ile Gln Phe Leu Val Met Ser Lys Cys Asn Asn Glu Ala Phe
287 1010      1015      1020
289 aca ctg gct cag caa cac aac aaa atg gaa atc tat gca gat att att 3120
290 Thr Leu Ala Gln Gln His Asn Lys Met Glu Ile Tyr Ala Asp Ile Ile
291 1025      1030      1035      1040
293 ggt tct gaa gac act act aat gaa gac tat caa agc att gcc tta tac 3168
294 Gly Ser Glu Asp Thr Thr Asn Glu Asp Tyr Gln Ser Ile Ala Leu Tyr
295      1045      1050      1055
297 ttt gaa gga gaa aag aga tat ctt cag gct gga aaa ttc ttc ttg ctg 3216
298 Phe Glu Gly Glu Lys Arg Tyr Leu Gln Ala Gly Lys Phe Phe Leu Leu
299      1060      1065      1070
301 tgt ggc caa tat tca cga gca ctt aaa cac ttc ctg aaa tgc cca agc 3264
302 Cys Gly Gln Tyr Ser Arg Ala Leu Lys His Phe Leu Lys Cys Pro Ser
303      1075      1080      1085
305 tcg gaa gat aat gtg gca ata gaa atg gca att gaa act gtt ggt cag 3312
306 Ser Glu Asp Asn Val Ala Ile Glu Met Ala Ile Glu Thr Val Gly Gln
307 1090      1095      1100
309 gcc aaa gat gaa ctg ctg acc aat cag ctg ata gac cat ctc ctg ggg 3360
310 Ala Lys Asp Glu Leu Leu Thr Asn Gln Leu Ile Asp His Leu Leu Gly
311 1105      1110      1115      1120
313 gag aac gat ggc atg cct aag gat gcc aag tac ctg ttc cgc ttg tac 3408
314 Glu Asn Asp Gly Met Pro Lys Asp Ala Lys Tyr Leu Phe Arg Leu Tyr
315      1125      1130      1135
317 atg gct ctg aag caa tac cga gaa gct gcc cag act gcc atc atc att 3456
318 Met Ala Leu Lys Gln Tyr Arg Glu Ala Ala Gln Thr Ala Ile Ile Ile
319      1140      1145      1150
321 gcc aga gaa gag cag tct gca ggc aac tac cgg aat gca cac gat gtt 3504
322 Ala Arg Glu Glu Gln Ser Ala Gly Asn Tyr Arg Asn Ala His Asp Val
323      1155      1160      1165
325 ctc ttc agt atg tat gca gaa ctg aaa tcc cag aag atc aaa att ccc 3552
326 Leu Phe Ser Met Tyr Ala Glu Leu Lys Ser Gln Lys Ile Lys Ile Pro
327 1170      1175      1180
329 tcc gag atg gcc acc aac ctc atg att ctg cac agc tat ata cta gta 3600
330 Ser Glu Met Ala Thr Asn Leu Met Ile Leu His Ser Tyr Ile Leu Val

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L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2